

FIG. 1 is a block diagram of a system for module movement.

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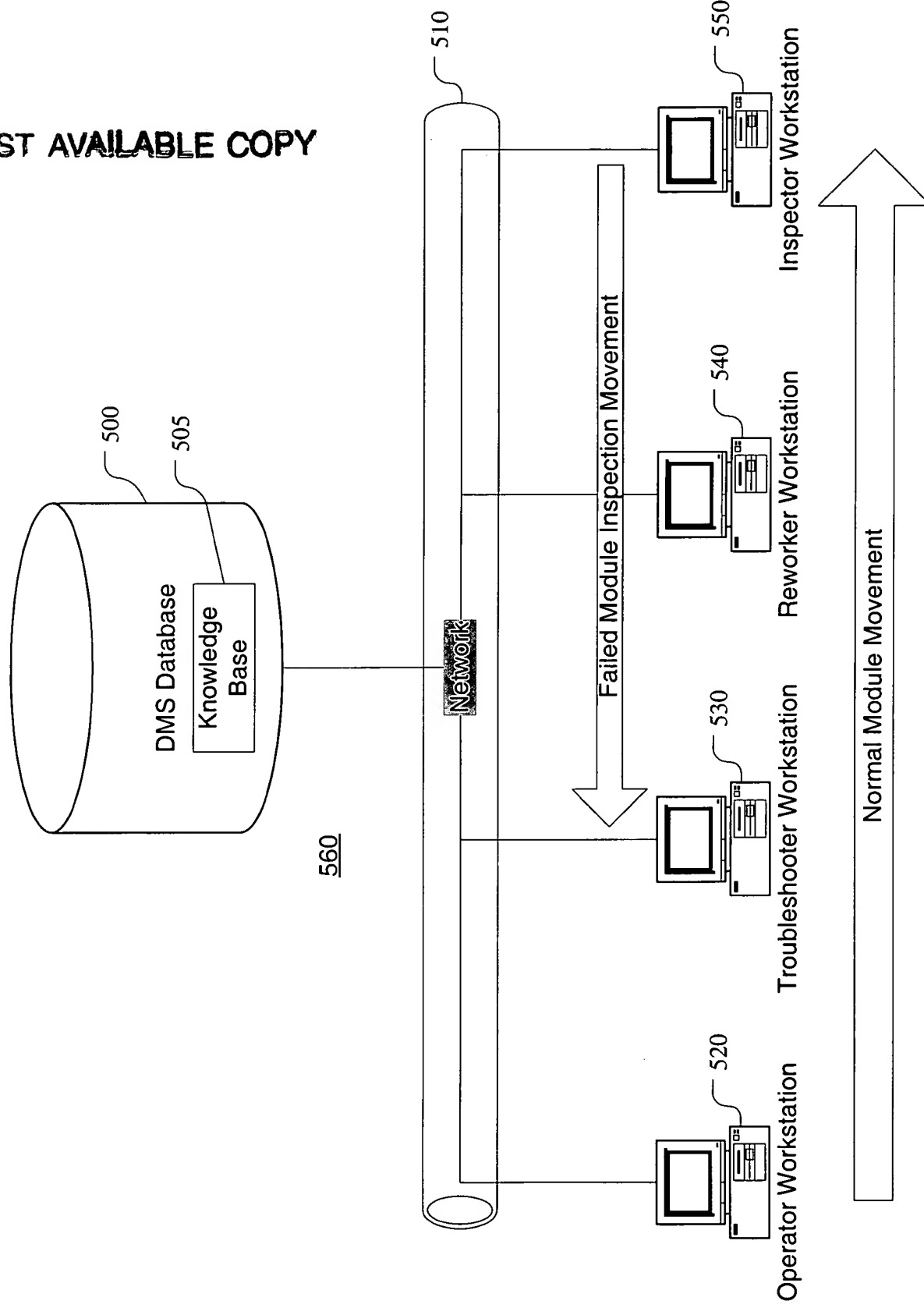


Figure 1

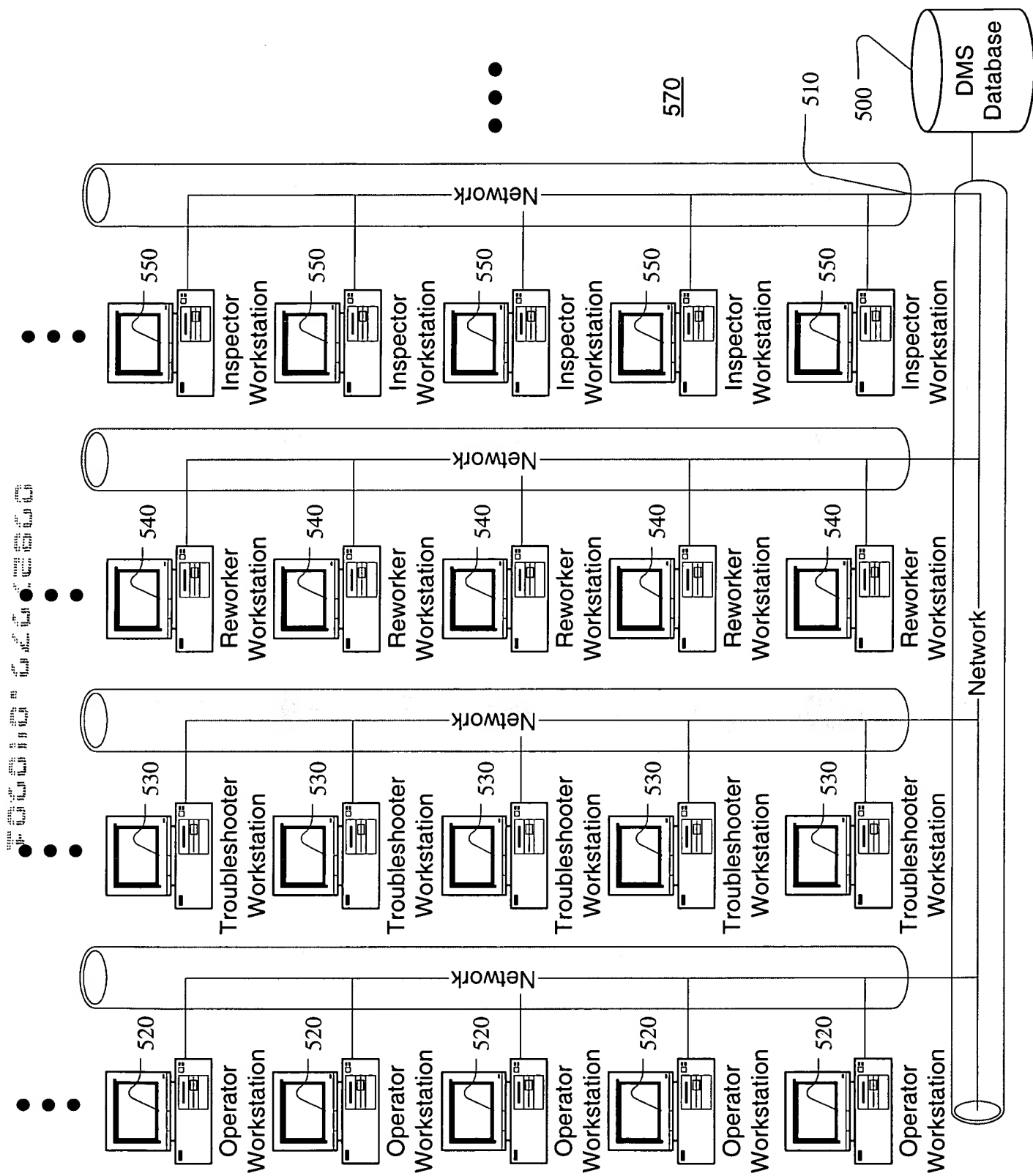


Figure 2

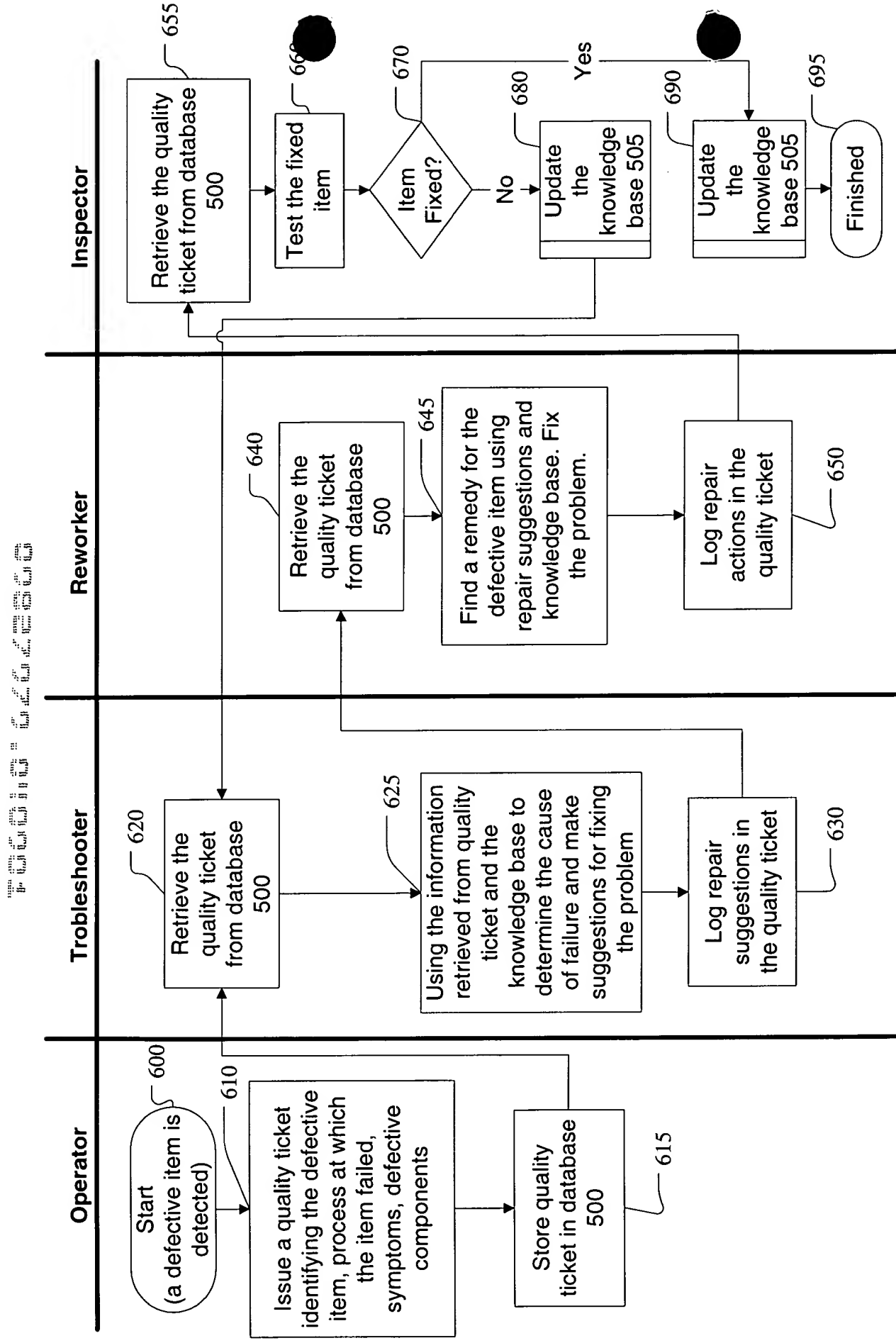


Figure 3

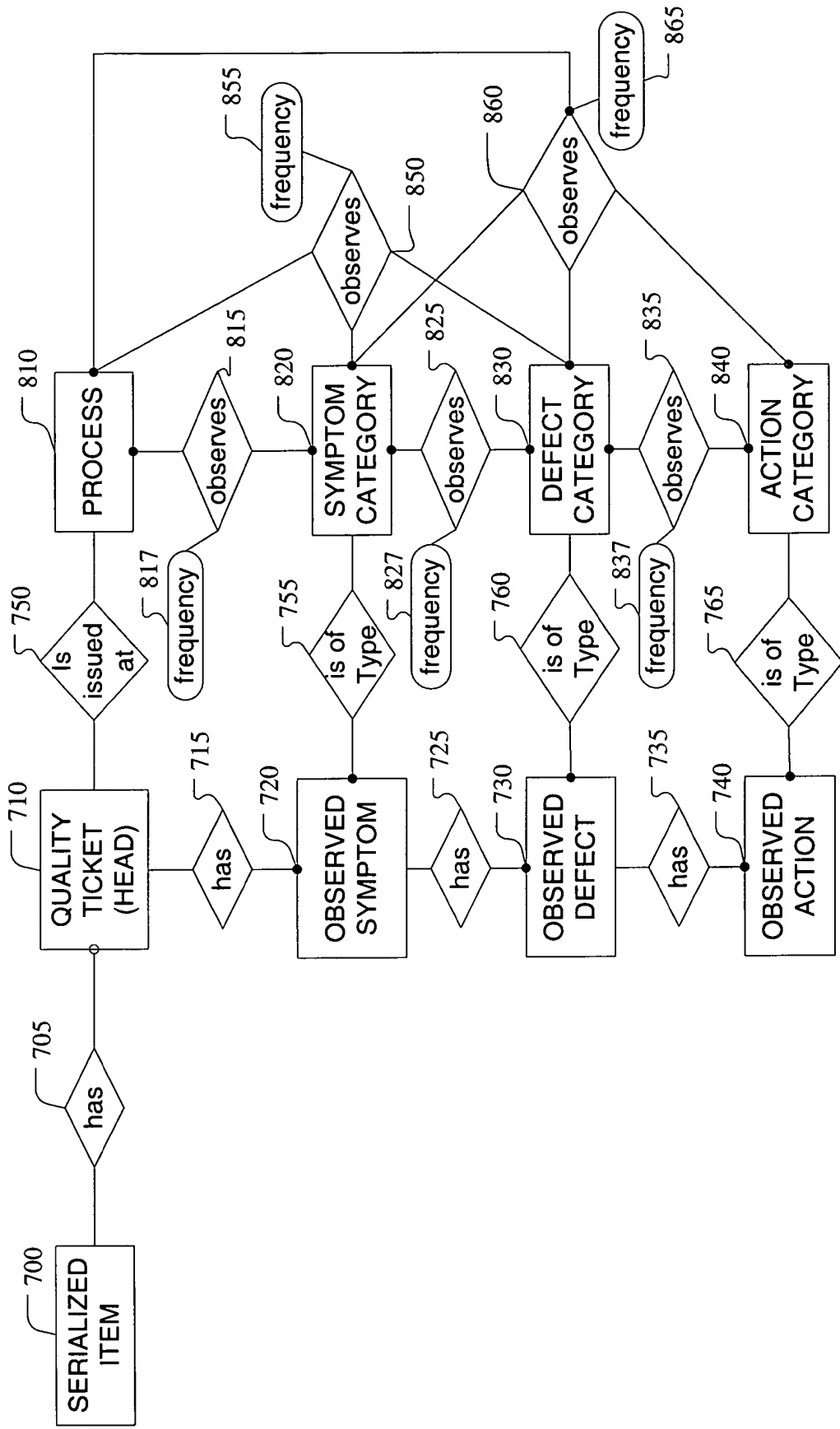


Figure 4

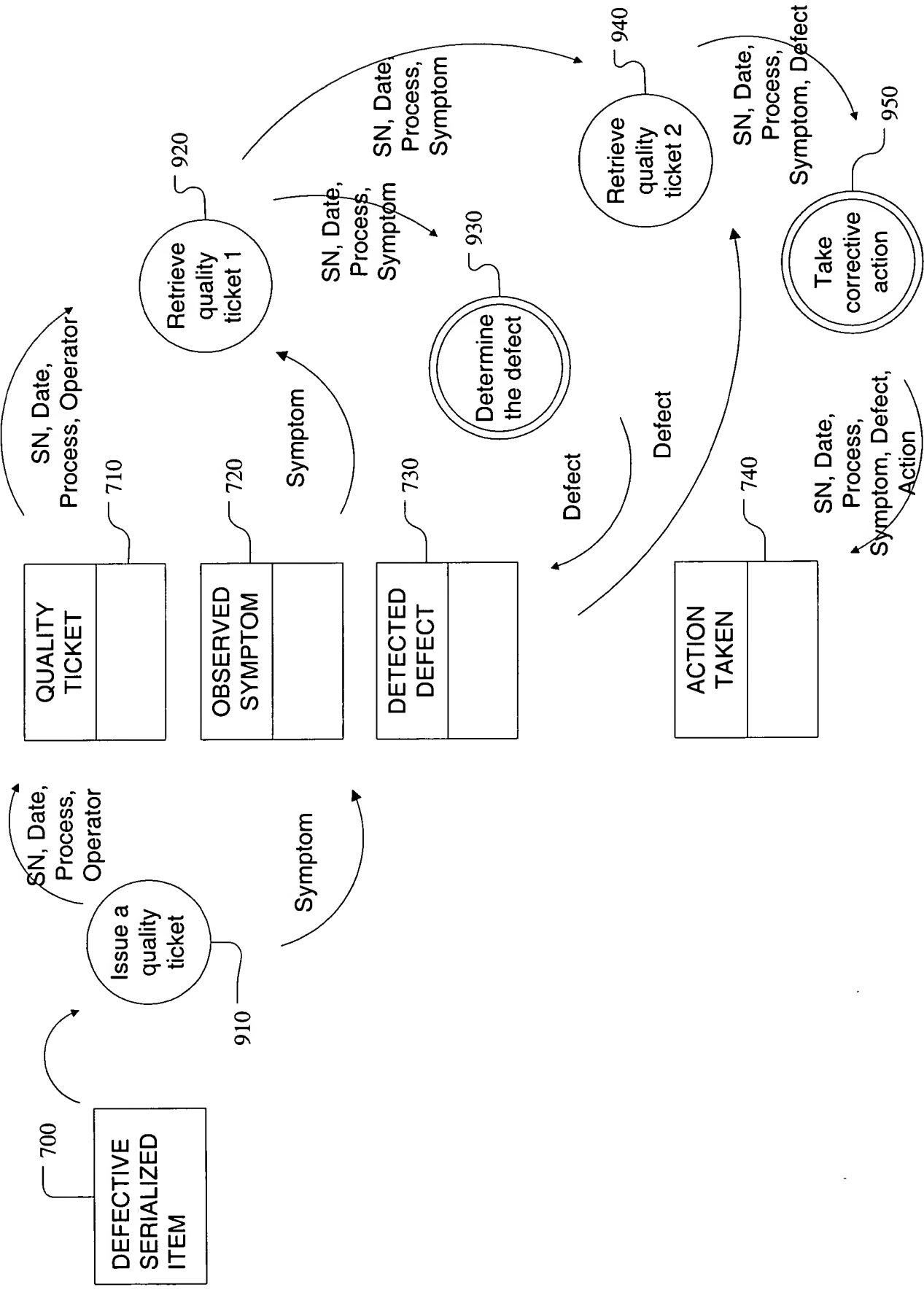


Figure 5

Quality Ticket (V1.2.2)

Serial Number
Ticket

Lookup
Get Info

Module Info
Application
Part Number
Description

Revision

Close Quality Ticket

Area Of Operation

Symptom

Initiated By

Process Step (Test)

Symptom Category

Comment

Process Step (Test)

Symptom

Quality Ticket Explorer OCS Support

Current Operator CIENAIMINOJARRA CIENAIMINOJARRA

Save Cancel/New Defect No Defect Close

Figure 6a

Defect Management System (V 1.4.0) - Quality Ticket

Serial Number: Ticket:

Serialized Item Factory Data

Application: Part Number: Revision: Description:

Area Of Operation:

Symptom:

Process (Test Stage): Process Step (Test):

Comment:

Quality Ticket Explorer

7

5a

50

75

10 15 20 27 30 35 40 45

60 70 90 95 105 110 115 120 130 135 140

Figure 6b

Quality Ticket Explorer

Serial Number

M0000001

Lookup

Filter

☒ Both
☐ Opened
☐ Closed

Module Info

Description

ADM1.DROP13/4.15.16193.7THRU194

Part Number

130-0456-900

Revision

001

Application

Rework (Rw)

Quality Ticket(s): 101

Serial Number	Status	Time
663 [CLOSED]		4:53:00 PM
Test: OET1-Termination BER T		
TestStage: OET1 Test		
664 [CLOSED]		5:20:00 PM
1277 [CLOSED]		11:00:00 A
4895 [OPEN]		1:23:00 AM
4896 [OPEN]		1:25:00 AM
4897 [CLOSED]		11:45:00 A
4900 [CLOSED]		4:18:00 PM
4901 [CLOSED]		5:05:00 PM
4902 [CLOSED]		5:06:00 PM
4903 [CLOSED]		5:20:00 PM
4904 [CLOSED]		5:28:00 PM
4905 [CLOSED]		5:29:00 PM
4906 [OPEN]		5:51:00 PM
4908 [CLOSED]		2:41:00 PM
4909 [OPEN]		2:44:00 PM
4910 [CLOSED]		2:46:00 PM
4911 [CLOSED]		2:48:00 PM
4912 [CLOSED]		2:55:00 PM
4913 [CLOSED]		2:57:00 PM

Quality Ticket: 663

ON/A -> N/A

Fiber Defects -> Broken Fiber

Fiber -> Remove & Replace

Software Defects -> Wrong Software at Test Station

Visual -> Secure

Action: Visual -> Secure

Operator: Niakam Kazemi

Time: 5:11:43 PM

Comment:

Workstation: OCS_W501

Components:

Feedback: Problem was fixed

Close

Figure 8

Figure 9

Figure 1 illustrates a Defect Management System interface. The main window displays defect information for a specific quality ticket. The interface includes sections for Symptom Info, Defect, Action, and Defect List and Details. A dialog box titled "Defect Management System" is shown, indicating that defect information was logged in the database. The interface is annotated with reference numerals 70 through 350.

Figure 10a

The screenshot shows a software interface for managing quality tickets. The main title is "Defect/Action Information for Quality Ticket". Below this, there are several sections for data entry and viewing:

- Quality Ticket:** Contains fields for Ticket#: 416, SN: M0000002, PN: 13D-0466-800, and Rev: 001.
- Symptom Info:** Includes "T3 Test", "Process Step (Test)", "Symptom", "Comment", and "Initiated by: CIENA\mrojaia, CIENA\mrojaia".
- Defect:** Features "Action Category", "Component", "Comment", "Resolved: CIENA\mrojaia, CIENA\mrojaia", and a "Feedback" section with checkboxes for "Problem was fixed" and "Problem was not fixed".
- Defect List and Details:** A table with columns for "Defect Category", "Defect Broken Fiber", and "Log Date/Time".
- Area of Operation 1:** Shows "Current Operator: CIENA\mrojaia, CIENA\mrojaia".

Navigation buttons include "Save", "Cancel", and "Close". The interface is annotated with numbers 70 through 85, likely corresponding to a legend or key.

Figure 11a

Defect/Action Information for Quality Ticket: Ticket#: 4895 [SN: M0000001; PN: 130-0466-900; Rev: 001]

Operator: CIENA\dmstestuser1
 Process (Test Stage): OT1 - Rx
 Symptom Category: 1-N/A
 Comment:

Area of Operation: 10G
 Process Step (Test): RX grating test
 Symptom: N/A

Defect

Action Category: Testing2
 Components:
 Comment:

Action: Testing2 Step

Save

To get the detailed information on each defect double click on the corresponding row or click on the Feedback button

Status	Defect Category	Defect	Reference Designator(s)
Not Fixed	Component Defects	Damaged	YERE, EEE
No Action	Component Defects	Damaged	tmdd
No Action	Component Defects	Damaged	
No Action	Component Defects	Damaged	GGG, DFDD, DDD

Feedback

Close

Figure 11b

Figure 12

The screenshot displays a software interface for managing quality tickets. The main window is titled 'Defect/Action Information for Quality Ticket: Ticket#: 416 [S/N: M00000002; P/N: 130-0468-900; Rev: 001]'. It contains several input fields and sections for recording defect information and actions. A 'Feedback' dialog box is open, allowing the user to select whether the problem was fixed or not. The interface includes a 'Close' button and a 'Save' button.

Figure 13

Figure 1 is a screenshot of a computer screen displaying a "Detailed information for defect: 3305" window. The window is divided into several sections. The top section, labeled 321, contains a title bar with a close button (322) and a maximize button (323). Below the title bar, the window is divided into three main columns. The left column, labeled 324, contains the following fields: "Troubleshooter:" (325) with the value "Kazemi-1, Nlakam", "Defect Category:" (326) with the value "Component Defects", "RD(s):" (327) with the value "YERE, EEE", and "Comment:" (328) with an empty text box. The middle column, labeled 329, contains the following fields: "Reworker:" (330) with the value "Kazemi-1, Nlakam", "Action Category:" (331) with the value "Components", "RD(s):" (332) with an empty text box, and "Comment:" (333) with an empty text box. The right column, labeled 334, contains the following fields: "Defect:" (335) with the value "Damaged", and "Action:" (336) with the value "Cleaned". Below the "Action:" field, there is a checkbox (337) labeled "Problem was not fixed". At the bottom of the window, there is a text box (338) containing the text: "This box is to provide the system with feedback on whether the problem with the item has been fixed or not. This information is being checked when closing the quality ticket. If the quality ticket contains a defect with no corresponding action showing 'Problem was fixed' the ticket cannot be closed." To the right of the text box, there are two radio buttons (339 and 340) labeled "Problem was fixed" and "Problem was not fixed" respectively. To the right of the radio buttons, there is a "Save Feedback" button (341). At the bottom right of the window, there is a "Close" button (342). The window is labeled 320.


Figure 14

386

389


388

387


Troubleshooting Guide

The following is a list of the most likely causes for the specified SYMPTOM

Defect Category	Defect	Frequency
Component Defects	Defective Component	58
Testing Defects	Test Error	51
Component Defects	Damaged	26
Fiber Defects	Broken Fiber	11
Connector Defects	Pitted	10
Solder Defects	Insufficient Solder	8
Testing Defects	High Insertion loss	6
Solder Defects	Excessive Solder	5
Testing Defects	Proof Test Break	5
Component Defects	Wrong Component	5



350

Figure 15

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